

Sub B1
cont.
an optical carrier coupled to said cavity, said optical carrier including a grating defining a reflection peak coefficient at a wavelength λ that is less than the wavelength λ_{\max} by at least 10 nanometers at ambient temperature.

8. (New) The optical device of Claim 7, wherein said wavelength λ is less than the wavelength λ_{\max} by $15 \text{ nm} \pm 5 \text{ nm}$.

9. (New) The optical device of Claim 7, wherein said wavelength λ is less than the wavelength λ_{\max} by 13 nm when an operating temperature is equal to 25°C .

10. (New) The optical device of Claim 8, wherein said wavelength λ is less than the wavelength λ_{\max} by 13 nm when an operating temperature is equal to 25°C .

11. (New) The optical device of Claim 7, wherein said cavity comprises:

a reflection face;

an output face; and

a laser medium between the reflection face and the output face.

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Sub B2
12. (New) The optical device of Claim 11, wherein said grating has a reflection coefficient that is more than 10 times greater than a reflection coefficient of said output face.

13. (New) The optical device of Claim 12, wherein said wavelength λ is less than the wavelength λ_{\max} by 13 nm when an operating temperature is equal to 25°C .

14. (New) The optical device of Claim 11, wherein said output face has a reflection coefficient of about 0.1%.

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15. (New) The optical device of Claim 14, wherein said grating has a reflection coefficient of less than about 5%.

16. (New) The optical device of Claim 15, wherein said grating has a reflection coefficient of about 1%.

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fiber.

~~17. (New) The optical device of Claim 7, wherein said optical carrier is an optical fiber.~~

18. (New) The optical device of Claim 7, wherein said laser is a quantum well laser.

19. (New) The optical device of Claim 7, wherein said laser is a laser diode including an epitaxied quantum well structure.

20. (New) The optical device of Claim 7, wherein said laser comprises an InGaAs semiconducting medium.

21. (New) The optical device of Claim 7, wherein said optical carrier is coupled to said cavity by a first collimating lens and a focusing lens that focuses light toward said optical carrier.

22. (New) The optical device of Claim 7, wherein:

said optical carrier is an optical fiber, and

said grating is a fiber Bragg grating.

23. (New) The optical device of Claim 22, wherein said wavelength λ is less than the wavelength λ_{\max} by 13 nm when an operating temperature is equal to 25°C.--

IN THE ABSTRACT OF THE DISCLOSURE

Please number the Abstract Page as Page 13.

Page 13, delete in its entirety and substitute therefor: